

NUMERICALLY: (For coding purposes):

any

WE CHOOSE A SMALL TIME INTERVAL Dt 40 2 CALCULATE d = - 9 sin 0 at a given 0 $\Delta w = d \cdot \Delta t$ $\Theta = \omega + \Delta \omega$ (5) $\Delta \theta = \omega \cdot (\Delta t)$ (6) $\theta_{\text{new}} = \theta + \Delta \theta$ (7) CALCULATE NEW (X,Y) DOSITION AS FOLLOWS: pos X = Xinit + Lain Onew posY = Yinit + Leos Onew Kepeat indefinitely or for a fixed time 't' Voica! pendulum oscillates!